

Referring to FIG. 26, the marking of the helically-wound color-coded armored cable may be done after the sheath is formed by moving (as indicated by arrow 124) the inking machine 104 to the position indicated in phantom.

- 5 Another process of forming the helically-wound color-coded armored cable is to supply metal strip already having a stripe (or some other pattern) of colored ink (or dye or paint) on one side to the profile machine 112. This alternative process would not require an inking machine 104 to be included in the process of profiling and convoluting the metal strip around the conductor(s) 114 to form the helically-wound color-coded armored cable.

- Referring to FIG. 27, as an alternative to FIGS. 26, during manufacture, one or more conductors 114 may be fed from the supply spool 116 through a rotating machine 103 which rotates the supply of metal strip 100. The metal strip 100 enters the profile machine 112, which forms the metal strip into an "S" shape (see the cross-section in FIGS. 5 and 8), and then passes into the convoluting machine 118 which helically wraps the S-shaped metal strip around the conductor(s) 114 to form the armored cable. The armored cable enters the inking machine 104 (indicated in phantom) which selectively applies colored ink as described previously. The helically-wound, color-coded armored cable 120 exits the inking machine 104 as the finished product, and is collected on take-up spool 122. If pre-marked metal strip is provided by the rotating machine 103, the inking machine 104 (indicated in phantom) may be eliminated from the manufacture process of FIGS. 27.

- Referring to FIGS. 26, 27, and 29, the inking machine could use "inkier" or paint sprayers to apply the colored material (e.g., ink, dye, or paint, whether conductive or non-conductive) to the metal strip instead of using the inking roll and etched roll. Also, a brush-type application instrument could be used in place of the rollers or sprayers. A constant supply of ink, dye, or paint would be supplied to the brush-type applicator during the application process. Dip pans or wipes could also be used.

What is claimed is:

1. An armored cable sheath comprising
 - a conductive tubular structure having an internal passage, an outer surface, a first end, and a second end, the internal passage being sized and configured to enclose one or more conductors, said tubular structure being made of a material having a first visual appearance, and
 - a pattern of visible indicia, of different visual appearance from said first visual appearance, applied on said outer surface, said pattern being repeated along the length of said sheath.
2. Apparatus comprising:
 - a tubular conductive sheath having first and second ends and inner and outer surfaces, the inner surface of the sheath defining an internal passage sized and configured to enclose one or more conductors;
 - visible indicia displayed on the outer surface of the sheath, the visible indicia spanning between the first and second ends of the sheath and providing the outer surface of the sheath with a visual appearance different from a visual appearance of the outer surface of the sheath without the visible indicia.
3. The apparatus of claim 2 wherein the visible indicia comprise a pattern.
4. The apparatus of claim 3 wherein the pattern repeats along the length of the sheath.
5. The apparatus of claim 2 wherein the visible indicia comprise color.

6. The apparatus of claim 5 wherein the visible indicia comprise red coloring.

7. The apparatus of claim 5 wherein the visible indicia comprise anodized metal.

8. The apparatus of claim 5 wherein the visible indicia 5
comprise ink, dye, or paint.

9. The apparatus of claim 8 wherein the ink, dye, or paint is substantially non-conductive.

10. The apparatus of claim 8 wherein the ink, dye, or paint is substantially conductive. 10

11. The apparatus of claim 2 wherein the visible indicia are continuous between the first and second ends of the sheath.

12. The apparatus of claim 11 wherein the visible indicia comprise a stripe extending from the first end to the second 15
end of the sheath.

13. The apparatus of claim 12 wherein the stripe traverses a helical path around the outer surface of the sheath.

14. The apparatus of claim 12 wherein the stripe substantially covers the outer surface of the sheath. 20

15. The apparatus of claim 14 wherein the stripe is substantially conductive.

16. The apparatus of claim 2 wherein the visible indicia are spaced apart along the length of the sheath between the first and second ends of the sheath such that regions disposed 25
between adjacent indicia exhibit the visual appearance of the outer surface of the sheath.

17. The apparatus of claim 16 wherein the visible indicia comprise a series of spots.

18. The apparatus of claim 2 wherein the visible indicia 30
leave at least a portion of the outer surface of the sheath exposed.

19. The apparatus of claim 18 wherein the visible indicia leave at least a portion of the first and second ends of the 35
outer surface exposed.

20. The apparatus of claim 2 wherein the conductive sheath comprises a helically wound conductive strip forming a tubular structure with alternating crowns and valleys along the length of the sheath.

21. The apparatus of claim 20 wherein the visible indicia 40
leave at least a portion of the outer surface of the crowns exposed.

22. The apparatus of claim 20 wherein the visible indicia leave at least a portion of the outer surface exposed where edges of the strip along the crowns contact a surface of the strip at the valleys.

5 23. The apparatus of claim 2 wherein the conductive sheath comprises a continuous metal tubular structure.

24. The apparatus of claim 23 wherein the outer surface of the continuous metal tubular structure is provided with alternating crowns and valleys along the length of the continuous metal tubular structure.

0 25. The apparatus of claim 24 wherein the crowns and valleys form a helical configuration on the outer surface of the continuous metal tubular structure.

26. The apparatus of claim 2 further comprising the one or more conductors disposed within the internal passage of the conductive sheath.

27. The apparatus of claim 26 further comprising a layer of insulation disposed between the one or more conductors and the inner wall of the sheath.

28. The apparatus of claim 27 wherein the insulation comprises paper.

29. The apparatus of claim 27 wherein the insulation comprises plastic.

30. Apparatus comprising:

3 a tubular conductive sheath having first and second ends and inner and outer surfaces, the inner surface of the sheath defining an internal passage sized and configured to enclose one or more conductors;

3 a substantially conductive coating disposed on the outer surface of the sheath, the coating having a visual appearance different from a visual appearance of the outer surface of the sheath.

31. The apparatus of claim 30 wherein the coating comprises ink, dye, or paint.

32. The apparatus of claim 30 wherein the coating comprises a pattern.

33. The apparatus of claim 32 wherein the pattern repeats along the length of the sheath.

34. The apparatus of claim 33 wherein the pattern comprises a stripe extending along the length of the sheath.

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